







This booklet provides game operation, bookkeeping, game adjustment, and diagnostic procedures for FIREPOWER. For installation and special maintenance information refer to the blue-covered game manual. For detailed information refer to Williams Solid State Flipper Maintenance Manual.

SPECIAL CONSIDERATIONS WHEN REPLACING CIRCUIT BOARDS

CPU Board

- Revision level 6 CPU Boards (batteries located on lower right corner of board) or later boards must be used.
- 2. Must be equipped with green-labeled FIREPOWER PROMs, green-labeled game ROM and green-labeled flipper ROMs.
- 3. Jumper J4 must be connected and J3 removed.

Sound Board

- 1. Model D 8224 required for speech.
- 2. Must be jumpered for white-labeled sound ROM operation and be equipped with Sound ROM 3. (Jumpers W2, W5, W7, W9, W10, and W15 connected; W3, W4, W6, W8, W11, W12, and W13 removed)

Power Supply Board

1. Fuse F4 (10A SB) for flipper solenoids must be installed.

Optional Speech Module

1. Requires 5T4971 (IC7), 5T4972 (IC5), and 5T4973 (IC6) speech ROMs.

GAME OPERATION

*Indicates adjustable features

Game Over Mode -Turn game ON; player scores show zero, high score to date* alternates with player 1 score, player 1 up lamp flashes, game over lamp lights, all playfield lamps except for credit lamp except in attract mode.

Credit Posting Insert coin; knocker sounds, number of credits displayed. If maximum credits exceeded by coin or high score to date*, credits are posted correctly, coin lockout deenergized until remaining credits are below maximum. No credits may be won and coins are rejected while lockout is deenergized.

Game Start - Push credit button; start-up tune played, ball served, credit display reduced by one-

-button before ball-2 displayed: allows additional players.

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Bonus Advance - "F-I-R-E" rollovers when not lit, flashing "1-6" targets, left and right inside rollovers (3 advances when lit), and left and right outside rollovers. Bonus multiplier advanced and FIRE insert lit by spotting "F-I-R-E". "F-I-R-E" lamps rotate by actuating right flipper (LANE CHANGE™ feature).

FIREPOWER - Making three POWER targets scores 10,000 and lites POWER insert, left and right inside rollovers, and *ball saver kicker ON. Liting FIRE and POWER inserts scores and advances FIREPOWER bonus (5,000 or lit values of 10, 30, and 50,000). Outlane Special lit when *30, or 50,000 bonus collected.

"1-6" Targets - *Making "1-3" or "4-6" or same ball lights ball saver kicker ON. Spotting 1-6" lights ball saver kicker ON*, flashes two eject holes, lights spinner, and alternately lights two jet bumpers; adjustable to flash eject holes one at a time (always one at a time once MELTI-BALL play is achieved). Spotting "1-6" twice on the same ball lights all jet bumpers.

Eject Holes - Making eject hole when flashing locks up ball and new ball released per following order: from ball ramp, flashing eject hole, unlit eject hole. Locking up all balls in eject holes initiates MULTI-BALL play. To minimize multiple player interaction, lit and flashing eject holes are reallocated from ball to ball as required: flashing lamp to empty eject hole if possible; lit lamp to occupied eject hole if possible.

Extra Ball - Maximum of two Extra Balls per ball. Lighting *5x or making "F-I-R-E" with 5x lit lights center POWER target for Extra Ball. Making target when lit awards Extra Ball.

Tiks - Ball in play tilted on first closure of Playfield and Ball Roll tilts and third* closure of Plumb Bob. Slam Tilt returns game to game over.

Memory - "F-I-R-E" lanes, FIRE insert, POWER Target lamps, POWER insert, *FIREPOWER bonus lamps, *lit target arrows, eject hole lamps.

End of Game - Match Digits* appears in ball in play display, *credit awarded for match. Exceeding high score to date awards *three credits. Match, High Score to Date, and Game Over sounds made as appropriate. Balls released from eject holes and are placed on ball ramp before new game can be started.

With optional Speech Module, the following phrases are produced during game play:

ACHIEVEMENT

Game start, collecting FIREPOWER bonus

Making "F-I-R-E"

Lighting POWER

Spotting "1-6" lamps

MULTI-BALL play

Winning Extra Ball

Making Special

Tilt

High Score to Date

PHRASE FIREPOWER.

FIRE.

POWER.

Enemy destroyed.

Fire 1, 2, 3.

You won one mission.

Mission accomplished.

You are destroyed.

FIREPOWER mission accomplished.

Game Over

Random phrase

You destroyed FIREPOWER. Enemy destroyed you. Mission 213 accomplished. You are enemy.

Enemy fire destroyed you.

Fire destroyed you.

Mission destroyed you.

Enemy power won.

You destroyed enemy mission.

Enemy mission.

You won, FIREPOWER destroyed.

FIREPOWER destroyed.

BOOKKEEPING AND EVALUATION TOTALS

(Functions 01-12)

In game over mode, set alternate-action switch to AUTO-UP (out) and depress ADVANCE pushbutton. Test 04 is indicated in number of credits display, Function 00 in ball in play display, and game identification in Player 1 display.

- 2. Operate the ADVANCE pushbutton to display each function on the ball in play display (see Table 1) and record each total from Player 1 display. (To reveiw a total that has been advanced past, set alternate-action switch to MANUAL-DOWN (in) and operate the ADVANCE pushbutton.)
 - 3. Calculate the following if desired: % Paid Credits = Function 04 ÷ Function 08
 - Turn the game OFF and back ON to return to game over mode.
 - To change current High Score to Date to value of Function 13, momentarily depress HIGH 5. SCORE RESET pushbutton.
 - To zero Functions 01-11, see page 7

GAME ADJUSTMENT PROCEDURE (Functions 13-35)

Coin door must be open to change settings.

- 1. In game over mode, set alternate-action switch to AUTO-UP (out) and depress ADVANCE pushbutton. Test 04 is indicated in number of credits display, Function 00 in ball in play display, and game identification in Player 1 display.
- To raise Function number in ball in play display, operate ADVANCE pushbutton with switch set to AUTO-UP (in). To lower Function number operate ADVANCE with it set to MANUAL-DOWN (out).

3. With desired Function indicated in ball in play display, raise value in player 1 display by operating credit button with switch set to AUTO-UP (out); lower value by operating credit button with it set to MANUAL-DOWN (in). Value left of Player 1 display is new setting

- For values see Table 1 and (for pricing) Table 2. Repeat steps 2 and 3 until all required adjustments have been made.
- 5. Turn game OFF and back ON to return to game over mode.
- To restore factory settings and zero audit totals, see page 7.

DIAGNOSTIC PROCEDURES (Display Digits, Lamp, Solenoid, and Switch Tests)

- In game over mode, set alternate-action switch to MANUAL-DOWN (in) and depress ADVANCE. All displays should go blank.
- Momentarily depress ADVANCE and set switch to AUTO-UP (out). Display Digits test is 2. performed.
- Momentarily depress ADVANCE. Test 01 is indicated on number of credits display and 3. Lamp Test is performed.
- 4. Set switch to MANUAL-DOWN (in) and momentarily depress ADVANCE. Test 02 is indicated on number of credits display and solenoid 01 on the ball in play display; solenoid 01 is pulsed by driver board.

5. Operate ADVANCE to pulse each solenoid (see Figure 3). Pulse solenoid 08 three times to

- 6. Set switch to AUTO-UP (out) and momentarily depress ADVANCE. Test 03 is indicated on number of credits display and stuck switches on ball in play display.
- 7. See Figure 4. Operate switches; switch number is indicated on ball in play display.
 - Turn game OFF and back ON to return to game over mode.

remove balls from ramp before proceeding to switch test.

To set up Auto-Cycle Mode (Display Digits, Lamp, and Solenoid Tests) see page 7.

Table 1. Game Adjustments

	Table 1. Game Adjustments		
FUNCTION	DESCRIPTION	NOTES	FACTORY Setting
00	Game Identification	1	1497 2
01	Coins, Left Chute (Closest to coin door hinge)	i	_
02	Coins, Center Chute	1	_
03	Coins, Right Chute	1	-
04	Total Paid Credits	1	_
05	Total Specials	!!	-
06	Total Replay (Extra Ball) Scores	!!	
07	Match and High Score to Date Credits	1	_
08	Total Credits Total Extra Balls	1,2	
09		1,3 1	
10 11	Total Ball Time in Minutes	i	_
12	Total Number of Balls Played Current High Score to Date	4	550,000
13	Backup High Score to Date	5	550,000
13	. •	6	410,000
15	Replay 1 Score Replay 2 Score	6	610,000
16	Replay 3 Score	6	010,000
17	Replay 4 Score	6	ŏ
18	Maximum Credits	7	20
19	Standard and Custom Pricing Control (00-07)	8	02
20	Left Coin Slot Multiplier	8	01
21	Center Coin Slot Multiplier 9	8	04
22	Right Coin Slot Multiplier 1,	8	01
23	Coin Units Required for Credit	8	01
21	Cain Units Banus Paint 2 4	8.	ρα Ι
25 -	High Score-Credits	5 -	03 :
26	Eviatch (00=ON, 01=OFF)		00
26 27	Special.		00
	00.⊞ Awards Credit		-
l	01 # Awards Extra Ball		
	02 = Awards Points	ļ	
28			00
	00 = Credits at Replay Score	1	
	01 = Extra Ball at Replay Score		
29	Maximum Plumb Bob Tilts (1-9)	_	03
30	Number of Balls (03 or 05)	9	03
31	"1-6" Targets	9	03
	00 = Eject holes lit singly, no target memory		
	01 = Eject hole pair lit first time, no target memory		
	02 = Eject holes lit singly, targets on memory	j	
22	03 = Eject hole pair lit first time, targets on memory		01
32	Ball Saver Kicker ON Lamp	_	0,
	00 = Lit from POWER Targets 01 = Lit from "1-3" or "4-6" targets on same Ball or spotting "1-6" lamps		
	02 = Lit from "1-6" Lamps	1	1
	03 = Lit from "1-6" Lamps or POWER targets	1	1
33	FIREPOWER Bonus Lamps	_	03
55	00 = No lamps lit initially, no lamp memory (extra conservative)		~~
	01 = 10,000 lamp lit initially, no lamp memory (conservative)	Ī	l
	02 = No lamps lit initially, bonus lamps on memory (moderate)		
	03 = 10,000 lamp lit initially, bonus lamps on memory (liberal)	}	1
34	Extra Ball Control/Attract Mode Sounds	l –	01
		Ì	
	01/11 = Extra Rall when Lit after 5X (1st setting = No Attract Mode Sounds		
	02/12 = Extra Ball when Lit with 5X 2nd setting = Attract Mode Sounds	l	
35	Special Control/Background Sound	l _	12
	00/10 = Alternating Special lites when 50,000		l
	FIREPOWER Bonus collected	l	1
	01/11 = Alternating Special lites when 30,000 1st setting =	l	l
	FIREPOWER Bonus collected no background sound	l	l
	02/12 = Specials lite when 50,000 2nd setting =	l	1
	FIREPOWER Bonus collected background sound on	l	1
	03/13 = Specials lite when 30,000		1
	FIREPOWER Bonus collected	l	
		·	

Notes:

- 1. Functions 00-11 cannot be changed from the coin door; however, Functions 01-11 can be set to zero as described on page 7.
- Total Credits (Function 08) is the sum of Function 04 and as applicable, Functions 05, 06, and 07.
- 3. Total Extra Balls (Function 09) is the sum of the game extra ball feature and Functions 15 and 06, as applicable.
- 4. Current High Score to Date (Function 12) can be changed to the value of the Backup High Score to Date (Function 13) by operating the HIGH SCORE RESET switch while in the game over mode.
- 5. Function 13 may be set to any multiple of 10,000 points. Setting Function 25 to zero with Function 13 set to any score but zero permits the High Score to Date feature to operate but no credits are awarded.
- 6. Functions 14-17 (Replay Scores) may be set to any multiple of 10,000 points. Setting a function to zero disables the replay score point. Always disable the Replay 4 level first, the Replay 3 level second, etc. The replay levels must be set with ascending values.
- 7. Setting Maximum Credits (Function 18) to zero places the game in a free play mode.
- 8. With Function 19 set to 00, Functions 20-24 must be set manually. Refer to Table 2 for seven standard pricing schemes (selected by values of 01-07 for Function 19) and custom pricing values.
- 9. For 5-Ball play, it is recommended that Function 31 be set to 02.

RECOMMENDED SCORE LEVELS

Levels	Score Card
CREDIT GAMES	
3-Ball: *410,000; 610,000 or 410,000; 620,000; 740,000 5-Ball: (See Note 9) 500,000; 720,000	497-36 497-14 497-45
EXTRA BALL	.,,,,,,
3-Ball: 300,000 5-Ball: 400,000	497-74 497-76

Table 2. Standard and Custom Price Settings

4004 14100							
COIN DOOK	•			FUNC	FUNCTION		
MECHANISM	CREDITS	19	20	21	22	23	24
Twin-Quarter	1/25e. 3/50e. 7/81	8	03	12	03	<i>c</i> 0	1.2
Quarter, Dollar, Quarter	1/25e, $3/50e$, $7/$1 coin only$	8	03	1 4	03	2 2	: 8
	1/25¢, 7/\$1 coin only	8	10	07	0	0	8
	1/25¢, 3/50¢, 6/\$1	8	0	9	10	0	02
	$1/25\mathfrak{c}, 6/\$1$ coin only	8	10	90	10	10	8
	•1/25c, 5/S1	90	01	3	01	10	2
	$1/25\mathfrak{E}$, $5/\$1$ coin only	8	10	05	01	01	8
	•1/25¢, 4/\$1	02	10	2	01	10	8
	•1/50¢, 3/\$1	0	10	2	01	05	2
	1/50¢	00	01	8	01	03	8
IDM, 5DM,2DM	-1/1DM, 3/2DM, 10/5DM	03	60	45	18	95	45
	2/1DM, 5/2DM, 14/5DM	00	13	65	76	05	65
	1/20¢, 3/50¢	00	90	90	15	05	8
1 Franc, 10 Franc, 5 Franc	•1/2F, 3/5F only, 8/10F only	94	10	16	98	07	00
25 Cent,	•1/25¢, 4/1G	90	10	8	2	10	8
l Guilder,	1/25¢, 5/1G	00	01	8	Z	10	B
50 Yen, 100 Yen	•1/50Y, 2/100Y	07	10	00	02	10	8
l Franc or	1/1F, 3/2F	8	10	10	10	10	02
Twin-1 Franc	1/1F	00	01	0	01	10	8
5 Franc,	•1/5F, 2/10F	0.0	10	00	70	10	98
10 Franc	1/10F	00	01	8	02	05	8
Twin-2 Franc	•1/2F	0.0	01	2	01	10	00
10, 20 Franc	•1/10F, 2/20F	0.0	10	8	02	9	8
Twin-1 Sucre	1/3S, 2/5S	00	05	8	02	05	8
~	price settings by adjusting only Function 19. For other price settings, set Function 19 to 00 and set Functions 20	price settir	gs, set F	unction 1	9 to 00 ar	nd set Fur	ections 20
through 24 to the values indicated in the chart.	in the chart.	•					

RESETTING AUDIT TOTALS AND ADJUSTMENTS; INITIATING AUTO-CYCLE MODE

- 1. In game over mode, set the alternate-action switch to MANUAL-DOWN (in) and momentarily depress the ADVANCE pushbutton. All displays should go blank.
- 2. Remove the backglass and unlatch and open the insert door.
- 3. Set all switches on the MASTER COMMAND slide switch to OFF (move to the right).
- 4. Set switch on MASTER COMMAND switch to ON (move to left):
 - a. To zero audit totals (Functions 01-11) set switch 8 to ON.
 - b. To restore factory settings and zero audit totals, set switch 7 to ON. Coin Door must remain open to restore factory settings.
 - c. For Auto-Cycle Mode set switch 6 to ON.
- Momentarily depress MASTER COMMAND ENTER pushbutton. The LEDs should blink once.
- 6. a. After zeroing audit totals turn game OFF and ON to return to game over mode.
 - b. After restoring factory settings, turn game OFF and ON twice to return to game over mode.
 - c. To initiate Auto-Cycle Mode, set alternate-action switch to AUTO-UP (out) and momentarily depress the ADVANCE pushbutton. Each cycle of this mode sequences through display digits test, flashes all multiplexed lamps 64 times and pulses each solenoid. To terminate the Auto-Cycle mode and go to game over, turn the game OFF and ON.

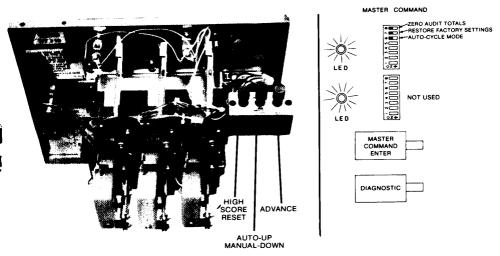
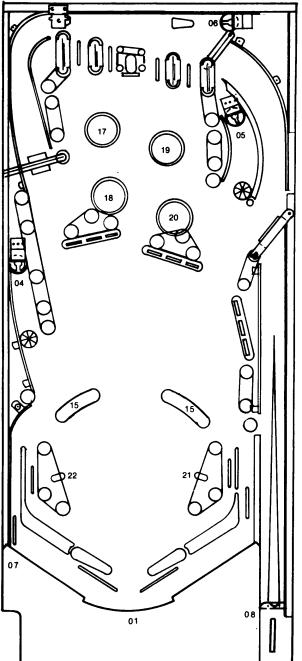


Figure 1. Coin Door Diagnostic Switches

Figure 2.

Master Command

Settings Switch



SOL. NO. DESCRIPTION

01 Ball Release 02 Not Used Not Used 03 04 Left Eject Hole 05 Right Eject Hole Upper Right Eject Hole 06 Left Ball Saver Kicker 07 08 Ball Ramp Thrower 09

09 Sound 10 Sound

11 Sound 12 Sound

12 Sound 13 Sound

14 Credit Knocker

15 Flash Lamps

16 Coin Lockout17 Top Left Jet Bumper

18 Bottom Left Jet Bumper19 Top Right Jet Bumper

20 Bottom Left Jet Bumper21 Right Kicker

22 Left Kicker

Figure 3. Playfield Solenoid Locations and Solenoid Chart

Table 3. Solenoid Connections

SOL.		WIRE		DRIVER	SOLENOID
	FUNCTION	COLOR	CONNECTIONS	TRANS.	PART NO.
01	Ball Release	GRY-BRN	2P11-4, 8P3-17	Q15	SA-23-850-DC
02	Not Used	GRY-RED	2P11-5, 8P3-18	Q17	-
03	Not Used	GRY-ORN	2P11-7, 8P3-19	Q19	-
04	Left Eject Hole	GRY-YEL	2P11-8, 8P3-20	Q21	SG-23-850-DC
05	Right Eject Hole	GRY-GRN	2P11-9, 8P3-21	Q23	SG-23-850-DC
06	Upper Right Eject Hole	GRY-BLU	2P11-3, 8P3-22	Q25	SG-23-850-DC
07	Left Ball Saver Kicker	GRY-VIO	2P11-2, 8P3-23	Q27	SG-23-850-DC
08	Ball Ramp Thrower	GRY-BLK	2P11-1, 8P3-24	Q29	SA-23-850-DC
09	Sound	BRN-BLK	2P9-9, 10P3-3	Q31	-
10	Sound	BRN-RED	2P9-7, 10P3-2	Q33	-
11	Sound	BRN-ORN	2P9-1, 10P3-5	Q35	-
12	Sound	BRN-YEL	2P9-2, 10P3-4	Q37	-
13	Sound	BRN-GRN	2P9-3, 10P3-7	Q39	-
14	Credit Knocker	BRN-BLU	2P9-4, 7P1-16	Q41	SA2-23-850-DC
15	Flash Lamps	BRN-VIO	2P9-5, 6P2	Q43	Type 89 Bulbs
16	Coin Lockout	BRN-GRY	2P9-6, 7P1-18, 7P2-4	Q45	SM-35-4000-DC
*17	Top Left Jet Bumper	BLU-BRN	2P12-7, 8P3-11	Q2	SG-23-850-DC
*18	Bottom Left Jet Bumper	BLU-RED	2P12-4, 8P3-12	Q4	SG-23-850-DC
*19	Top Right Jet Bumper	BLU-ORN	2P12-3, 8P3-13	Q6	SG-23-850-DC
*20	Bottom Left Jet Bumper	BLU-YEL	2P12-6, 8P3-14	Q8	SG-23-850-DC
*21	Right Kicker	BLU-GRN	2P12-8, 8P3-15	Q10	SG-23-850-DC
*22	Left Kicker	BLU-BLK	2P12-9, 8P3-16	Q12	SG-23-800-DC
	Right Flipper	BLU-VIO	7P1-8, 8P3-3	-	SFL-19-400/
	"				30-750-DC
	Left Flipper	BLU-GRY	7P1-10, 8P3-4	-	SFL-19-400/
		-	,		30-750-DC

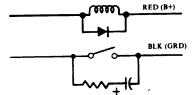
*NOTES:

- 1. Special switch connections for solenoids 17 through 22 are as follows:

 - 17 ORN-BRN 2P13-5, 8P3-5 18 ORN-RED 2P13-3, 8P3-6 19 ORN-BLK 2P13-2, 8P3-7 20 ORN-YEL 2P13-4, 8P3-8 21 ORN-GRN 2P13-8, 8P3-9 22 ORN-BLU 2P13-9, 8P3-10
- 2. Flipper button connections are as follows:

Right - ORN-VIO - 2P12-1, 7P1-7 Left - ORN-GRY - 2P12-2, 7P1-9

3. Typical wiring for solenoids and special switches:



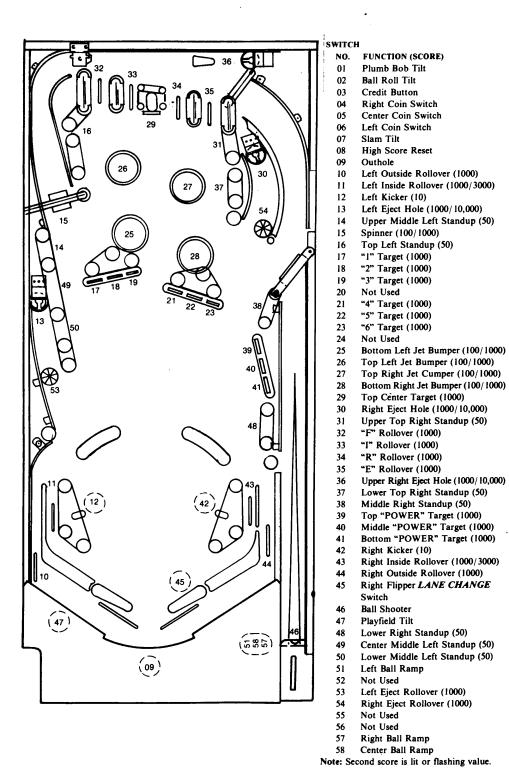


Figure 4. Playfield Switch Locations and Switch Chart

WHT- WHT- ORN- VEL	PLUMB		2111		GHN-DLN	GKN-BLU	GRN-VIO	GRN-GRY
WHT- ORN WHT- YEL	TILT	оитносе 9	"1" TARGET	BOTTOM LEFT JET BUMPER	"\" ROLLOVER	BOTTOM "POWER" TARGET	CENTER MIDDLE LEFT STANDUP	RIGHT BALL RAMP
WHT- ORN WHT-	BALL ROLL TILT	LEFT OUTSIDE ROLLOVER	"2" TARGET	TOP LEFT JET BUMPER	"R" ROLLOVER	RIGHT KICKER	LOWER MIDDLE LEFT STANDUP 50	CENTER BALL RAMP
WHT.	CREDIT BUTTON	LEFT INSIDE ROLLOVER	3" TARGET 19	TOP RIGHT JET BUMPER 27	"E" ROLLOVER 35	RIGHT INSIDE ROLLOVER	LEFT BALL RAMP 51	NOT USED 59
	RIGHT COIN SWITCH	LEFT KICKER 12	NOT USED	BOTTOM RIGHT JET BUMPER	UPPER RIGHT EJECT HOLE	RIGHT OUTSIDE ROLLOVER	NOT USED	NOT USED
WHT- GRN	CENTER COIN SWITCH	LEFT EJECT HOLE	"4" TARGET	TOP CENTER TARGET	LOWER TOP RIGHT STANDUP	RIGHT FLIPPER LANE CHANGE SWITCH 45	LEFT EJECT ROLLOVER	NOT USED
WHT- BLU	LEFT COIN SWITCH	UPPER MIDDLE LEFT STANDUP	"5" TARGET 22	RIGHT EJECT HOLE	MIDDLE RIGHT STANDUP	BALL SHOOTER	RIGHT EJECT ROLLOVER	NOT USED
WHT-	SLAM TILT	SPINNER 18	"6" TARGET 23	UPPER TOP RIGHT STANDUP 31	TOP "POWER" TARGET	PLAYFIELD TILT	NOT USED	NOT USED
WHT-	HIGH SCORE RESET	TOP LEFT STANDUP	NOT USED	"F" ROLLOVER	MIDDLE "POWER" TARGET	LOWER RIGHT STANDUP	NOT USED	NOT USED

Figure 5. Switch Matrix

* VEL-ORY	PLAYER UP	#2 PLAYER UP	PLAYER TO THE	PLAYER UP	TIET	GAME	SAME PLAYER SHOOTS AGAIN (BACKBOX)	HIGH SCORE TO DATE
YEL-VIO	RIGHT SPECIAL	can PLAY	2 CAN PLAY	CAN PLAY	CAN PLAY	МАТСН	BALL IN PLAY	CREDITS (PLAYFIELD)
VEL-BLU	10,000 FIREPOWER BONUS	30,000 FIREPOWER BONUS	50,000 FIREPOWER BONUS	EFT JET BUMPER	TOP RIGHT JET BUMPER	BOTTOM RIGHT JET BUMPER	BOTTOM LEFT JET BUMPER	LEFT
5 YEL-GRN	LEFT EJECT HOLE ARROW	RIGHT EJECT HOLE ARROW	UPPER RIGHT EJECT HOLE ARROW	×	3X	¥	ΧS	EXTRA BALL WHEN LIT
4 YEL-BLK	20,000 BONUS	"1" TARGET ARROW	"2" TARGET ARROW	"3" TARGET ARROW	"4" TARGET ARRÓW	"5" TARGET ARROW	"6" TARGET ARROW	SPINNER 1,000 WHEN LIT
3 YEL-ORN	4,000 BONUS	5,000 BONUS	6.000 BGNUS	7,000 BONUS	8,000 BONUS	8,000 BONUS	NOT	10,000 BONUS
2 YEL-RED	TOP POWER TARGET	CENTER POWER TARGET	BOTTOM POWER TARGET	RIGHT INSIDE ROLLOVER	LEFT INSIDE ROLLOVER	1,000 BONUS	2,000 BONUS	3,000 BONUS
YEL-BRN	SAME PLAYER SHOOTS AGAIN (PLAYFIELD)	BALL SAVER KICKER ON	FIRE (x2)	POWER (x2)	d.,		Å.	. Ę.
COLUMN	1, BRN	2 RED- BLK	3 RED-	4 RED-	5 GRN	6 RED- BLU	7 RED-	8 GRY

Figure 6. Lamp Matrix